# Press Release

**Going beyond limits: Ultrasonic sensors U500/UR18 feature the shortest blind range at yet long sensing distance available on the market**

(03/27/2020) Thanks to the unique sensor element, the sensor families U500 and UR18 with IO-Link are not only more robust than all comparable sensors on the market, but their extremely short blind range at yet very long sensing distance brings requirements to a whole new level.

Normally, the blind range correlating with long sensing distance is often an obstacle in sensor integration. With such a short blind range Baumer breaks the laws of physics. Conventionally, the blind range amounts to 10-15% of the total sensing range which is due to a physical phenomenon. Baumer however succeeded in cutting it down to world benchmarking 2%. In practice, this means merely 20 mm blind range at an overall sensing distance of up to 1000 mm. This is absolutely unique and unmatched.

Such product characteristics allow for multifaceted and versatile applications regarding object or medium to be detected and the prevailing installation and environmental conditions. Users with frequently changing application requirements on sensing distance and blind range usually require more sensor variants, since standard ultrasonic sensors with narrow blind range only provide limited sensing range. Requirements on long sensing distance must compromise on blind range, but not when using the U500/UR18 ultrasonic sensors from Baumer. To users this means cutting down the sensor variants to a single one, since the sensor fully covers the long sensing distance between 20 and 1000 mm. This also simplifies sensor alignment and design-in which and reduces engineering costs.

Furthermore, both sensor families enable precise, flexible and application-specific parameterization via IO-Link interface. The sonic beam size, for example, quickly and easily adapts to container opening and fluid to be detected. The sensors provide real added value by secondary diagnostic and process data. This results in increased system effectiveness and sustainable process optimization.

Further information: [www.baumer.com/ultrasonic-distance-robust](http://www.baumer.com/ultrasonic-distance-robust)

Photo: Ultrasonic sensors U500 and UR18 from Baumer excel with unmatched blind range of merely 20 mm in the 1000 mm class.

Number of characters (with spaces): approx. 2086

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

The Baumer Group is one of the worldwide leading manufacturers of sensors, encoders, measuring instruments and components for automated image processing. Baumer combines innovative technologies and customer-oriented service into intelligent solutions for factory and process automation and offers an unrivalled wide technology and product portfolio. With around 2,700 employees and 38 subsidiaries in 19 countries, the family-owned group of companies is always close to the customer. Baumer provides clients in most diverse industries with vital benefits and measurable added value by worldwide consistent high quality standards and outstanding innovative potential. Learn more at [www.baumer.com](http://www.baumer.com) on the internet.

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| **Press contact:**  Christina Frick  Baumer Group  Phone +49 7771 6474 1205  Fax +41 (0)52 728 11 44  cfrick@baumer.com  www.baumer.com | **Company contact global:**  Baumer Group  Phone +41 (0)52 728 11 22  Fax +41 (0)52 728 11 44  sales@baumer.com  [www.baumer.com](http://www.baumer.com) |